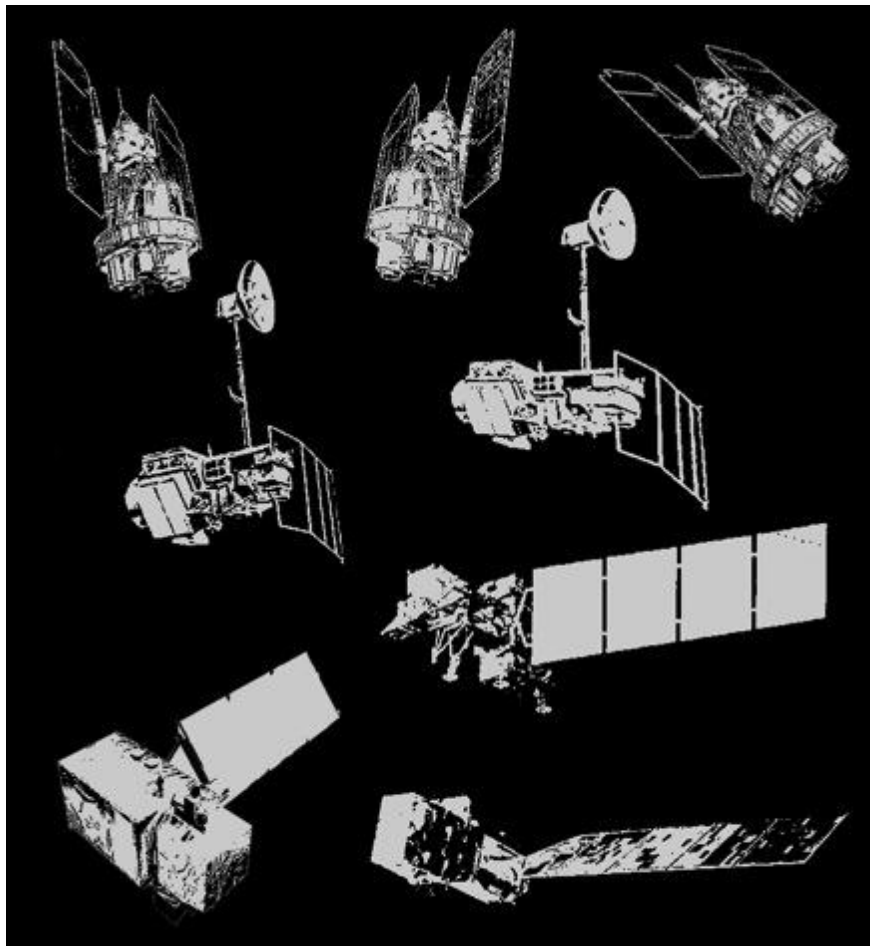


Seeking Balance in the Land-use Marketplace



ALAN BELWARD

www.jrc.ec.europa.eu

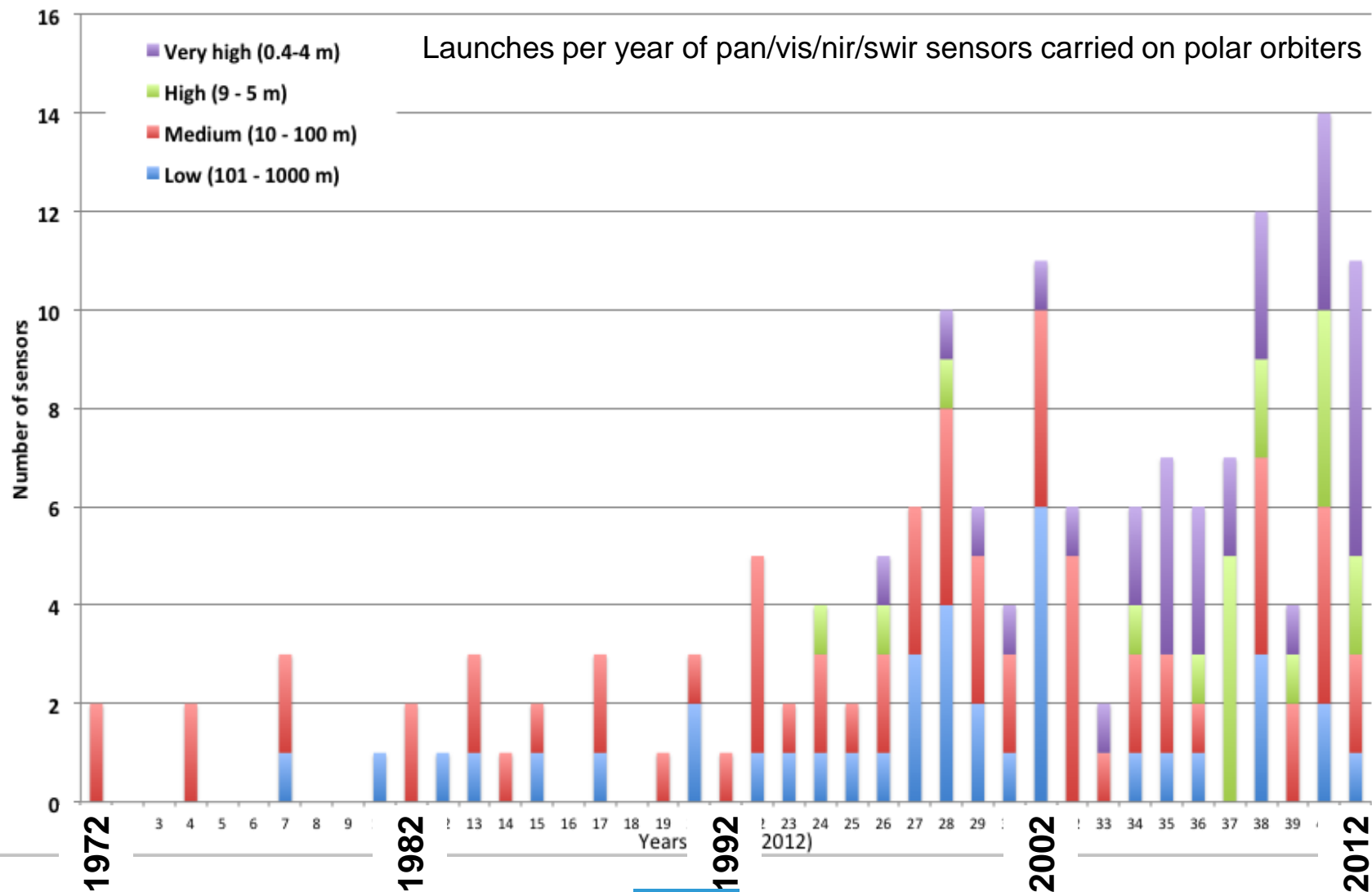


The future we want

Enhance sustainable agriculture, improve food security, conserve resources, biodiversity and ecosystems and enhance resilience to climate change and natural disasters

- ① Recognizes the *importance of space-technology-based data, in situ monitoring and reliable geospatial information* for sustainable development policymaking, programming and project operations
- ② Promotes the science-policy interface through *inclusive, evidence-based and transparent scientific assessments*, as well as *access to reliable, relevant and timely data*





Environmental Pressures



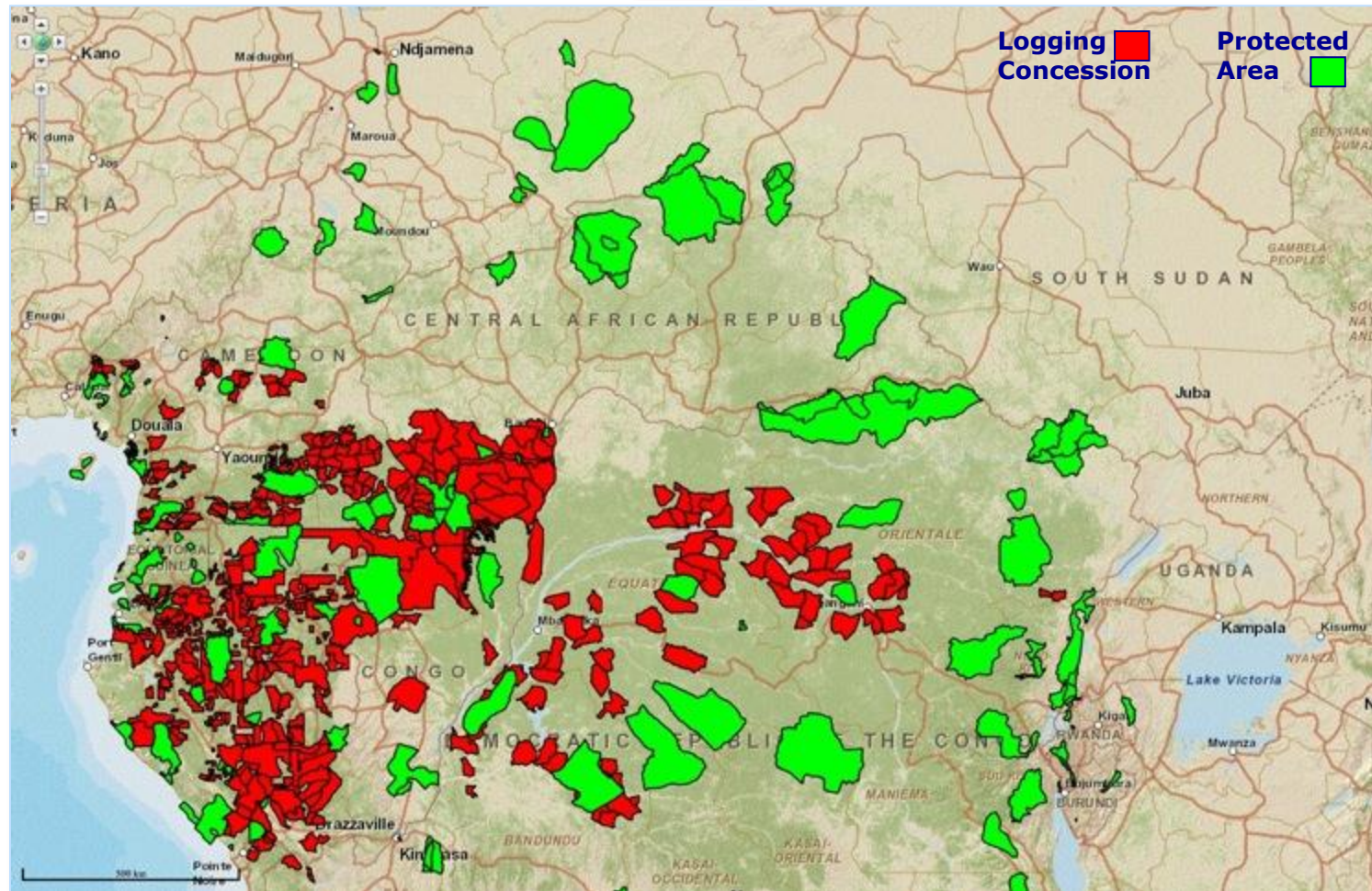
**Competition
for Land**

Economic Pressures

Societal Pressures

Food, Fuel, or Fibre ?

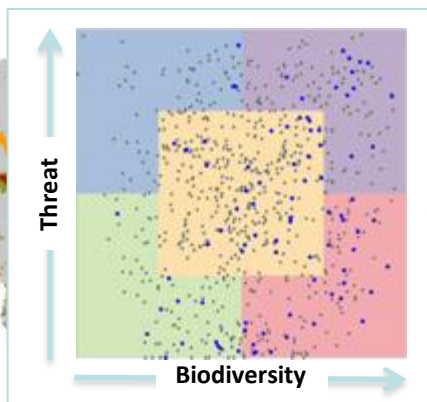




**OFAC; on-line for forest management,
carbon, biodiversity, cover change**

**Interactive mapping, reference reports, data
management/analysis, capacity-building**

Risk/value for African Protected Areas
(blue dots = EU funded PA)



Monitoring Scenarios Forecasts

Provide
Web Processing
Services

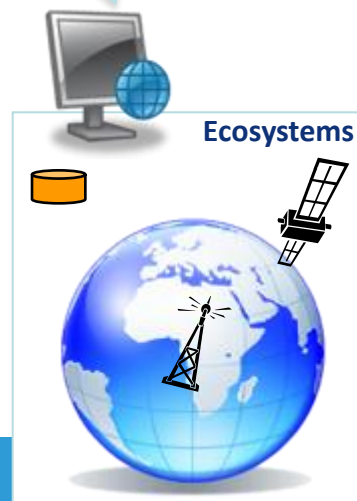
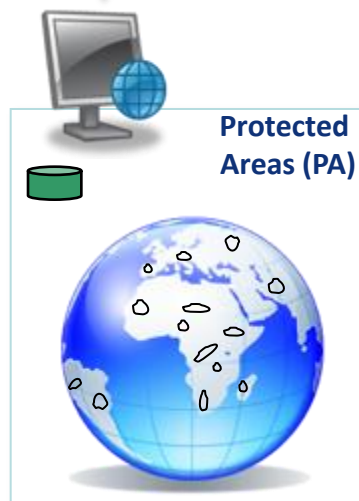
Integrate
datasets

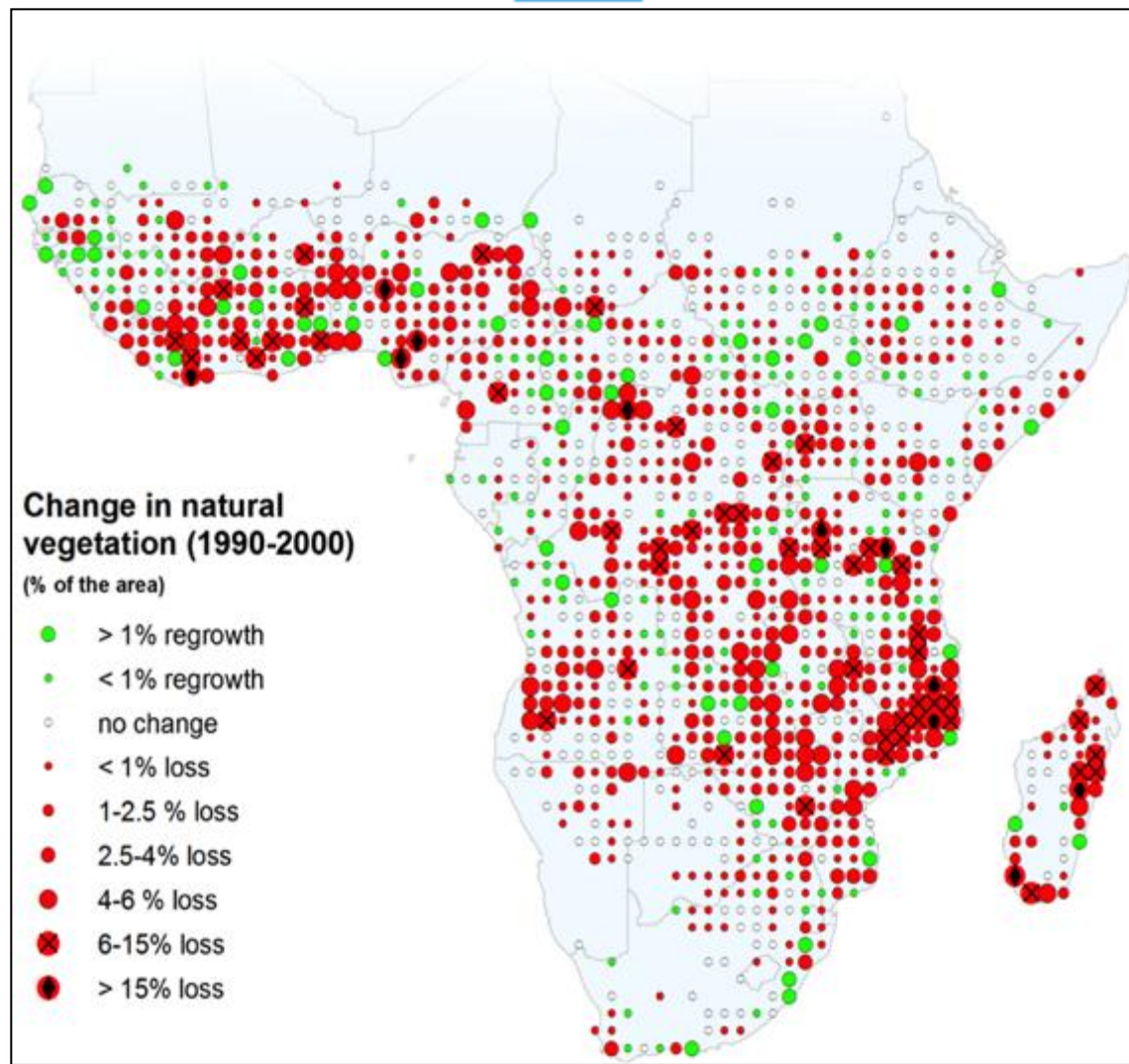
Create new
information for
Protected Area
management

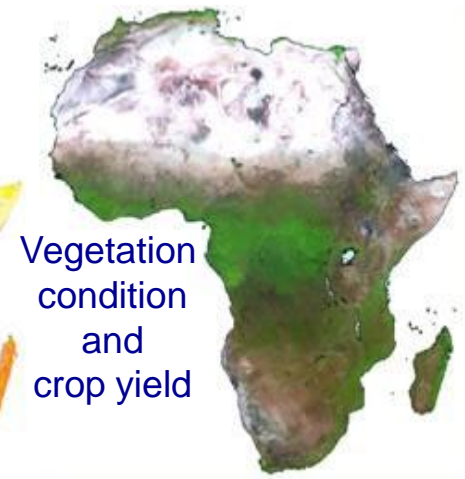
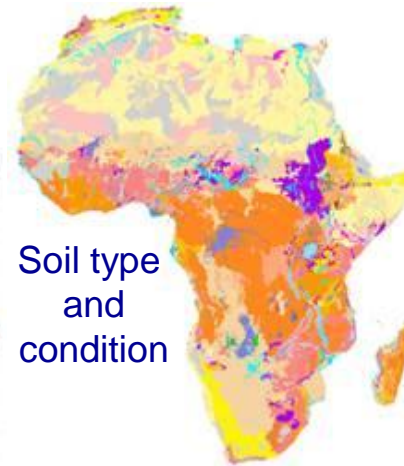
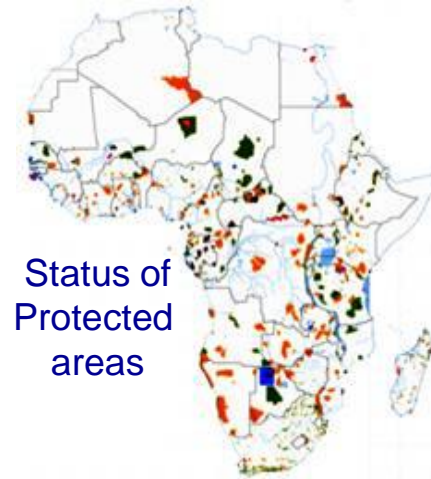
Make datasets
Interoperable

Provide
Web Services,
but share their
input/output

Collect data
Update data
Build databases



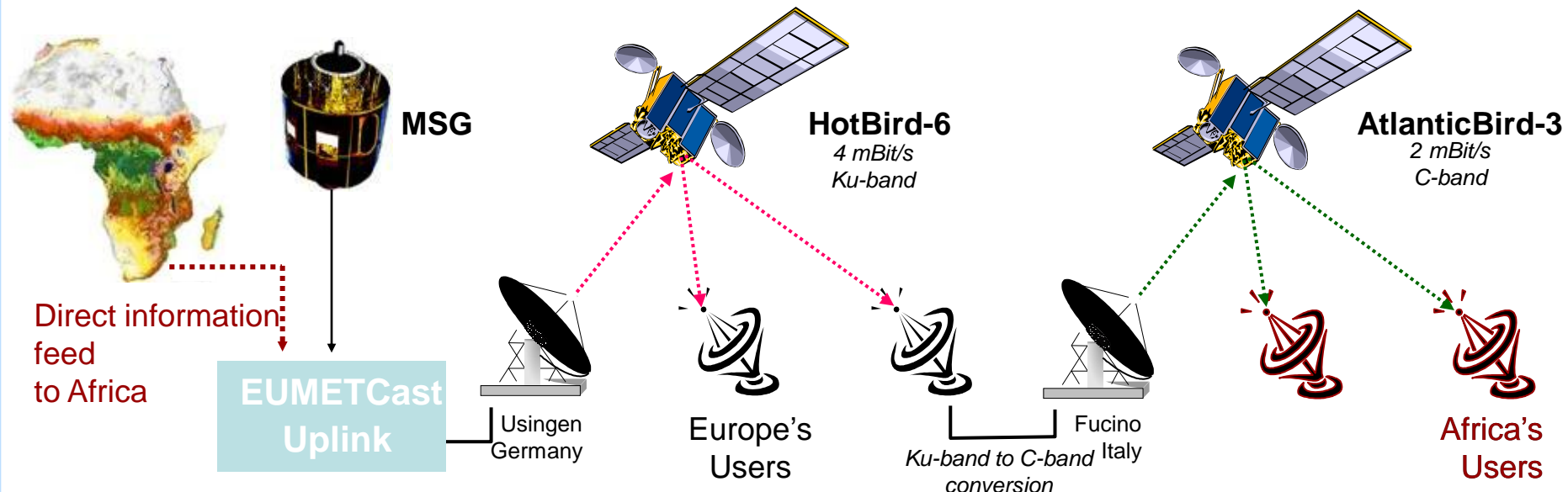




Data for food security analysis, crop monitoring, land degradation, surface water monitoring, grassland condition, forest condition, fire mapping...

Initially research projects, now support to development projects (PUMA, AMESD, MESA, in total 68 MEUR from European Development Fund)

Satellite communications and IT infrastructure, with applications



Technical advice for contractual matters
Development of processing chains for
analysis and reporting

Thematic analysis concerning long-term
resource management
Capacity-building

Objectives

- ① Maximize S2 L8 programme synergy (products, data access)
- ② Ensure both are recognised as key informers of policy (EU and International)
- ③ Build land resource management services around these, especially...
- ④ Promoting and supporting uptake in Africa

Tentative Plans

- ① S2 simulation from SPOT 4 for land cover / cover change in Tanzania
- ② 1990 – 2000 – 2005 – 2010 – 2015 cover change for Africa
- ③ Integrate higher-resolution products into the eStation and subsequent Continental (AUC), Regional (RECs) and national uptake across Africa.

Joint Research Centre (JRC)

www.jrc.ec.europa.eu

Contact: jrc-info@ec.europa.eu

Serving society
Stimulating innovation
Supporting legislation

4 January 2013